1002021 • 000000000 
$$f(x) = x h x - a x^2 + x (a \in R)$$

$$01000000 \ y = f(x) \ 00000 \ f_010) \ 00000 \ f_00000$$

$$200 f(x) = 2000 X_0 X_1 X_2 X_2 = 2X_{0000} \sqrt{X_1^2 + X_2^2} > \frac{4}{e_0}$$

$$000000010 f(x) = xlnx - ax^2 + x = lnx + 1 - 2ax + 1 = lnx - 2ax + 2$$

$$y = f(x) = (1 - f_{1}) = (1 - a) = (2 - 2a)(x - 1) = (2 - 2a)(x$$

$$y=2(1-a)(x-\frac{1}{2})$$
  $x=\frac{1}{2}$   $y=0$ 

$$000 I_{000} (\frac{1}{2} 0)_{0}$$

$$20^{-1} X_0 X_1 f(x) = f(x)$$

$$\int_{X} x \ln x - ax^2 + x = 0$$

$$\int_{X} \ln x + 1 = ax$$

$$\int_{X} \ln x - ax^2 + x = 0$$

$$\int_{X} \ln x + 1 = ax$$

$$\int_{X} \ln x + 1 = ax$$

$$\frac{\ln x_1 + 1}{x_1} = \frac{\ln x_2 + 1}{x_2} = \frac{\ln (x_1 x_2) + 2}{x_1 + x_2} = \frac{\ln x_2 - \ln x_1}{x_2 - x_1}$$

$$t = \frac{X_2}{X_1}(t > 2) \quad \therefore \ln X_1 X_2 + 2 = \frac{(X_1 + X_2) \ln \frac{X_2}{X_1}}{X_2 - X_1} = \frac{(t+1) \ln t}{t-1}$$

$$g(t) = \frac{(t+1)\ln t}{t-1} g(t) = \frac{t-\frac{1}{t}-2\ln t}{(t-1)^2}$$

$$I(t) = t - \frac{1}{t} - 2Int \qquad I(t) = \frac{(t-1)^2}{t^2} > 0 \qquad I(t) = \frac{(2,+\infty)}{(2,+\infty)}$$

$$\therefore g(t) > g_{2} = 3\ln 2 \ln (x_1 x_2) + 2 > 3\ln 2 \ln (x_1 x_2) > \ln \frac{8}{e}$$

$$\chi_{X_{2}} > \frac{8}{e^{t}} \bigcap \sqrt{\chi^{2} + \chi_{2}^{2}} > \sqrt{2\chi_{X_{2}}} > \frac{4}{e} \bigcap$$

$$010000 y = f(x) 000000$$

$$0 = a > 0 = f(x) - a = 0 = X_0 X_1 = X_2 = 0 = X_1^2 + X_2^2 > 2e_0$$

$$0 \quad a \in R_{\square} : a < 0_{\square} \quad f(x) = e^{ax} (1 - ax) > 0 \Rightarrow x > \frac{1}{a}$$

$$f(x) = e^{ax}(1-ax) < 0 \Rightarrow x < \frac{1}{a}$$

$$\therefore a < 0 \mod \frac{\left[\frac{1}{a}, +\infty\right)}{\left[\frac{1}{a}, +\infty\right]} \mod \frac{\left(-\infty, \frac{1}{a}\right)}{\left[\frac{1}{a}, +\infty\right]}$$

$$a = 0_{\square \square} f(x) = e^{ax}(1-ax) = 1 > 0_{\square}$$

$$\therefore a = 0_{0000000} (-\infty, +\infty)_{0}$$

$$a > 0$$
  $\Rightarrow X < \frac{1}{a}$ 

$$f(x) = e^{ax}(1-ax) < 0 \Rightarrow x > \frac{1}{a}$$

$$\therefore a > 0 \mod \left(-\infty, \frac{1}{a}\right] \pmod {\left(\frac{1}{a}, +\infty\right)}$$

$$0 = a < 0$$

$$a = 0_{0000000} (-\infty, +\infty)_{0}$$

## $00 \quad y = f(x) \quad 0000000000$

$$y = \frac{1}{ae}$$

$$x_1$$

$$x = \frac{1}{a}$$

$$x_2$$

$$x_2$$

$$x_3$$

$$0 = a > 0 = f(x) - a_{00000} X_0 X_2 = a < \frac{1}{ae_{00}} a^2 < \frac{1}{e_{00}}$$

$$X + X_2 > \frac{2}{a_{0000}} X > \frac{2}{a} - X_2$$

$$x < \frac{1}{a} = \frac{2}{a} - x_2 < \frac{1}{a} = f(x) = f($$

$$f(X_{2}) = f(X_{2}) = f(X_{2}) + f(\frac{2}{a} - X_{2}) = X_{2} > \frac{1}{a}$$

$$F(x) = f(x) - f(\frac{2}{a} - x) \quad x \in (\frac{1}{a}, +\infty)$$

$$F(x) = e^{ax}(1-ax) + e^{2+ax}[1-a(\frac{2}{a}-x)] = (1-ax)[e^{ax}-e^{2+ax}]$$

$$X > \frac{1}{a_{000}} - ax < ax - 2_{01} - ax < 0_{00} F(x) = (1 - ax)[e^{ax} - e^{2+ax}] > 0_{00}$$

$$F(x) = f(x) - f(\frac{2}{a} - x) \cdot (\frac{1}{a}, +\infty) \qquad F(x) > F(\frac{1}{a}) = 0$$

$$X_2 > \frac{1}{a} \qquad f(X_2) > f(\frac{2}{a} - X_2) \qquad X_1 + X_2 > \frac{2}{a}$$

$$X_1^2 + X_2^2 > \frac{(X_1 + X_2)^2}{2} > \frac{2}{d^2} > 2e$$

$$0 = f(x) - a_{00000} X = f(x) - a_{00000} X_0 X_0$$

$$\bigcap g(x) = lnx - ax - lna(x > 0)$$

$$\mathcal{G}(X) = \frac{1}{X} - a(X > 0) \quad \mathcal{G}(X) \quad (0, \frac{1}{a}) \quad (0, \frac{1}$$

$$G(x) = g(x) - g(\frac{2}{a} - x) \quad x \in (\frac{1}{a}, +\infty)$$

$$G(x) = \frac{1}{x} - a + \frac{1}{\frac{2}{a} - x} - a = \frac{2}{x(2 - ax)} - 2a > \frac{2}{\frac{1}{a}} - 2a = 0$$

$$\bigcap_{x \in \mathcal{C}(X)} G(x) \cap \frac{1}{a}, +\infty) \bigcap_{x \in \mathcal{C}(X)} G(x) > G(\frac{1}{a}) = 0$$

$$X_2 > \frac{1}{a} \bigcap g(X_2) > g(\frac{2}{a} - X_2) \bigcap X_2 \in (\frac{1}{a}, +\infty)$$

$$0 < X < \frac{1}{a} < X_2$$

$$\int_{a} g(x) \left(0, \frac{1}{a}\right) \left(0, \frac{1}{a}\right) \left(0, \frac{1}{a}\right) dx$$

$$3002021 \, \bigcirc \bullet 000000000 \qquad f(x) = \frac{\ln x + 1}{\partial x} \, \bigcirc$$

$$f(x) = \frac{\ln x + 1}{ax}(x > 0) \quad f(x) = -\frac{\ln x}{ax^2}$$

$$f(x) = 0 \quad x = 1$$

$$= f(x) = (0,1) = (0,1) = (1,+\infty) = (0,0) = (0,1) = ($$

$$000000 \ a > 0 \ 000 \ f(x) \ 0 \ (0,1) \ 0000000 \ (1,+\infty) \ 0000000$$

$$a < 0$$
  $f(x) = (0,1) = (0,1) = (1, +\infty) = (0,0) = (1, +\infty) = (0,0) = ($ 

$$0 \quad a = 1 \quad x_1 > 0 \quad x_2 > 0 \quad x_3 \neq x_2 \quad f(x_1) = f(x_2) \quad f(x_3) = f(x_3) \quad f($$

$$001000000 a = 100 f(x) 0(0,1) 0000000 (1,+\infty) 0000000$$

$$\textcircled{1} \ \square \ X_{\underline{2}} \in [2_{\square} + \infty) \ \square \ X_{\underline{1}}^2 + X_{\underline{2}}^2 > X_{\underline{2}}^2 ... 4 > 2_{\square \square \square}$$

$$2 \square X \in (1,2) \square 2 - X \in (0,1) \square$$

$$g(x) = f(x) - f(2-x) = \frac{\ln x}{x} + \frac{1}{x} - \frac{\ln(2-x)}{2-x} - \frac{1}{2-x} 0 < x < 1$$

$$g'(x) = -\frac{\ln x}{x^2} - \frac{\ln (2-x)}{(2-x)^2} > -\frac{\ln x}{x^2} - \frac{\ln (2-x)}{x^2} = -\frac{\ln (-(x-1)^2+1)}{x^2} > 0$$

$$\lim_{n \to \infty} X_i \in (0,1)_{1000} 2 - X_i > 1_{100}$$

$$_{\square} X_{2} > 1_{\square} f(x)_{\square} (1,+\infty)_{\square \square \square \square \square \square}$$

$$X^2 + 1.2\sqrt{X^2 \cdot 1} = 2X_{\square} X_2^2 + 1.2\sqrt{X_2^2} = 2X_{\square}$$

$$2000 m = 200000 X_1 > X_2 > 00000 (X_1^2 + f(X_1) - X_2^2 + f(X_2)) + (X_1^2 + X_2^2) > X_1 X_2 - X_2^2 = 0$$

$$f(x) = \frac{\ln x}{nx^2} \underbrace{\begin{array}{c} (0, +\infty) \\ 0 \end{array}}_{(0, +\infty)} f(x) = \frac{1 - 2\ln x}{nx^2}$$

$$f(x) < 0 \Rightarrow x > \sqrt{e_{000}} f(x) (\sqrt{e_i} + \infty)$$

$$f(x) < 0 \Rightarrow 0 < x < \sqrt{e}_{000} f(x)_{0} (0, \sqrt{e})_{000000}$$

$$0 \mod m > 0 \mod f(x) \mod (0, \sqrt{e}) \mod (\sqrt{e}, +\infty) \mod (\sqrt{e}, +\infty) \mod (1, \sqrt{e}) \pmod (1, \sqrt{e$$

$$(\vec{X_1} \cdot f(\vec{X_1}) - \vec{X_2} \cdot f(\vec{X_2})) \cdot (\vec{X_1} + \vec{X_2}) > \vec{X_1} \vec{X_2} - \vec{X_2} \Leftrightarrow \ln \vec{X_1} - \ln \vec{X_2} > \frac{2(\vec{X_1} \vec{X_2} - \vec{X_2})}{\vec{X_1} + \vec{X_2}}$$

$$\Leftrightarrow \ln \frac{X_1}{X_2} > \frac{2(\frac{X}{X_2} - 1)}{1 + (\frac{X}{X_2})^2} \Leftrightarrow \ln t > \frac{2(t - 1)}{1 + t^2} (t > 1) \Leftrightarrow \ln t - \frac{2(t - 1)}{1 + t^2} > 0(t > 1)$$

$$\varphi(t) = Int - \frac{2(t-1)}{1+t} \bigcap \varphi'(t) = \frac{(t-1)(t+2t-1)}{t(t+1)^2} \bigcap$$

$$\varphi'(t) = \frac{(t^{\epsilon} - 1)(t^{\epsilon} + 2t^{\epsilon} - 1)}{t(t^{\epsilon} + 1)^{2}} > 0$$

$$\varphi(t) = Int - \frac{2(t-1)}{1+t} \frac{(1,+\infty)}{1+\infty}$$

 $5002021 \cdot 0000000 f(x) = lnx - ax^2 + 1_0$ 

$$0100 a = 10000 y = f(2x - 1) 0 x = 100000$$

$$020000 y = f(x) 00000 x_0 x_0 x_0 x < x_0$$

0i0000 <sup>a</sup>000000

$$X_{2}^{2} - X_{1} < \frac{-a^{2} + a + 1}{a^{2}}$$

$$000000100 g(x) = f(2x-1) = In(2x-1) - (2x-1)^2 + 1_0$$

$$g(x) = \frac{2}{2x-1} - 4(2x-1) \qquad g'_{11} = -2 \qquad g_{11} = 0$$

$$\therefore \boxed{\quad \ \ } y = -2(x-1) \boxed{\quad \ }$$

$$(1) \quad f(x) = \ln x - ax^2 + 1$$

$$f(x) = \frac{1}{x} - 2ax$$

$$\underset{\square}{a>0} \underset{\square}{0} f(x) = \frac{1-2ax^2}{X} \underset{\square}{\cdots} f(x)_{\square} (0, \frac{1}{\sqrt{2a}})_{\square \square \square \square \square} (\frac{1}{\sqrt{2a}}, +\infty)$$

$$f(\frac{1}{\sqrt{2a}}) = -\frac{1}{2} I(2a) + \frac{1}{2} > 0$$

$$(ii)_{\,\,\square\square\square\square\square}\,\,y=\,f(\,x)_{\,\,\square\square\square\square\square}\,\,X_{1}^{\,\,\square}\,\,X_{2}^{\,\,\square\square}\,\,X_{1}^{\,\,<}\,X_{2}^{\,\,\square}$$

$$X_1 + X_2 > \frac{2}{\sqrt{e}}$$

$$X_2^2 - X_1 < X_2^2 + X_2 - \frac{2}{\sqrt{e}} < X_2^2 + X_2 - 1$$

$$X_{2}^{2} + X_{2} < \frac{1}{a^{2}} + \frac{1}{a}$$
  $X_{2} < \frac{1}{a}$   $f(X_{2}) > f(\frac{1}{a})$ 

$$0> f(\frac{1}{a}) \underbrace{ln\frac{1}{a} < \frac{1}{a} - 1}_{000}$$

6002021 
$$\bigcirc \bullet$$
 00000000000  $f(x) = e^x - a(x-1)$ 

0100000 <sup>f(x)</sup>00000

$$200 \stackrel{d>1}{\longrightarrow} g(x) = f(x) + \frac{1}{X}(x>0)$$

$$200 \stackrel{d>1}{\longrightarrow} f(x) = f(x) = f(x) + \frac{1}{X}(x>0)$$

$$200 \stackrel{d>1}{\longrightarrow} f(x) = f(x)$$

$$0000010 f(x) 00000 R_0 f(x) = e^x - a_0$$

$$\begin{bmatrix} a_n & 0 \end{bmatrix} f(x) > 0 \end{bmatrix} f(x) = R_0$$

$$0 = 0 = 0 \quad \text{if } (X) = 0 = 0 \quad X = \ln A$$

oo 
$$f(x)$$
 o  $(-\infty, \ln a)$  oo oo oo  $(\ln a, +\infty)$  oo oo oo

$$000000 \stackrel{a_n}{=} 000 \stackrel{f(x)}{=} R_{000000}$$

$$\frac{e^{x_1} - e^{x_2}}{X_1 - X_2} = a + \frac{1}{X_1 X_2} \quad a = e^{x_1} - \frac{1}{X_0^2} \quad \frac{e^{x_1} - e^{x_2}}{X_1 - X_2} - \frac{1}{X_1 X_2} = e^{x_1} - \frac{1}{X_0^2}$$

$$h(x) = e^{x} - \frac{1}{x^{2}} (0, +\infty) ($$

$$e^{\sqrt{x_{1}x_{2}}} - \frac{1}{XX_{2}} < \frac{e^{x_{1}} - e^{x_{2}}}{X_{1} - X_{2}} - \frac{1}{XX_{2}} = e^{\sqrt{x_{1}x_{2}}} < \frac{e^{x_{1}} - e^{x_{2}}}{X_{1} - X_{2}}$$

$$\sqrt{X_{1}X_{2}} < \frac{X_{1} + X_{2}}{2} = e^{\frac{X_{1} + X_{2}}{2}} < \frac{e^{X_{1} - X_{2}}}{X_{1} - X_{2}} = 0 = X_{2} - X_{3} < e^{\frac{X_{1} - X_{3}}{2}} - e^{\frac{X_{1} - X_{3}}{2}} = 0$$

$$e^{\frac{x_{2} \cdot x_{1}}{2}} = t(t > 1)_{00} x_{2} - x_{1} = 2Int_{00000} 2Int < t - \frac{1}{t_{0}}$$

$$\varphi(t) = 2 \ln t - t + \frac{1}{t}(t > 1) \qquad \varphi'(t) = -\frac{(t - 1)^2}{t^2} < 0 \qquad (1, +\infty) \qquad (1, +\infty)$$

$$7002021 \bullet 000000000 f(x) = \cos x - ax^{2} = 000 a \in R_{0}^{x} = \frac{\pi}{2} \frac{\pi}{2} \frac{\pi}{2}$$

$$a = -\frac{1}{2}_{00000} f(x)_{0000}$$

### $\square\square\square\square\square$ $^{a}\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square$

$$a = -\frac{1}{2} \prod_{x = 0}^{\infty} f(x) = \cos x + \frac{1}{2} x^{2} \prod_{x = 0}^{\infty} f(x) = -\sin x + x \prod_{x = 0}^{\infty} g(x) = f(x) \prod_{x = 0}^{\infty} g(x) = -\cos x + 1.0 \prod_{x = 0}^{\infty}$$

$$\left[-\frac{\pi}{2},\frac{\pi}{2}\right]_{00000}$$

$$\therefore g(x) \begin{bmatrix} -\frac{\pi}{2}, \frac{\pi}{2} \end{bmatrix}_{000000}$$

$$\therefore \mathbb{I}^{X \in \left[-\frac{\pi}{2}, 0\right)} \prod_{i \in \mathbb{I}} f(x) < 0 \prod_{i \in \mathbb{I}} X \in \left(0, \frac{\pi}{2}\right] \prod_{i \in \mathbb{I}} f(x) > 0$$

$$\therefore f(x) = X \in [-\frac{\pi}{2}, 0) \qquad X \in (0, \frac{\pi}{2}]$$

$$f(0) = 1$$
,  $(-\frac{\pi}{2}) = f(\frac{\pi}{2}) = \frac{\pi^2}{8}$ 

$$f(x) = [1, \frac{\pi^2}{8}]$$

$$\| \| \| \| f(-x) = \cos(-x) - a(-x)^2 = \cos x - ax^2 = f(x) \| \|$$

$$\therefore f(x) \begin{bmatrix} -\frac{\pi}{2}, \frac{\pi}{2} \end{bmatrix}$$

$$f(x) = f(x) = \sin x - 2ax f(x) = \cos x - 2a$$

$$\therefore H(x), H(0) = 0 \prod f(x), 0$$

$$\therefore f(x) = \frac{(0, \frac{\pi}{2})}{0}$$

$$2 \, \prod_{x} a_{x} - \frac{1}{2} \, \prod_{x} h(x) \cdot \Omega \, \prod_{x} h(x) \, \prod_{x} (0, \frac{\pi}{2}) \, \prod_{x} h(x) \, \prod_$$

$$\therefore H(x)..H(0) = 0 \quad f(x)..0$$

$$\therefore f(x) = (0, \frac{\pi}{2})$$

$$\therefore H(x) \underset{\square}{\times} (0, \chi) \underset{\square}{\longrightarrow} X \in (X, \frac{\pi}{2})$$

$$h(0) = 0$$

$$\therefore h(x_0) < 0 \quad \text{all} \quad h(\frac{\pi}{2}) = -1 - a$$

$$(h_{\square}^{-1} - a\tau_{\square}^{-1} + a\tau_{\square}^{-1} - \frac{1}{\pi}, a < 0$$

$$f(x), 0 = f(x) = \frac{f(x)}{2} = \frac{(0, \frac{\pi}{2})}{(0, \frac{\pi}{2})}$$

$$(ii)_{-1-a\tau>0} - \frac{1}{2} < a < -\frac{1}{\pi} \int_{0}^{\infty} h(\frac{\pi}{2}) > 0 \int_{0}^{\infty} t \in (x, \frac{\pi}{2}) \int_{0}^{\infty} h(t) = -\sin t - 2at = 0(*) \int_{0}^{\infty} t dt$$

$$\bigcup_{x \in \{0, t\}} X \in \{0, t\} \bigcup_{x \in X} H(x) < 0 \bigcup_{x \in X} X \in \{t, \frac{\pi}{2}\} \bigcup_{x \in X} H(x) > 0 \bigcup_{x \in X} X \in \{t, \frac{\pi}{2}\} \bigcup_{x \in X} H(x) > 0 \bigcup_{x \in X} X \in \{t, \frac{\pi}{2}\} \bigcup_{x \in X} H(x) > 0 \bigcup_{x \in X} H(x) > 0 \bigcup_{x \in X} H(x) > 0 \bigcup_{x \in X} H(x) = 0 \bigcup_{x \in X} H(x) =$$

$$\therefore f(x)_{\square}(0,t)_{\square \square \square \square \square \square \square}(t,\frac{\pi}{2})_{\square \square \square \square \square \square}$$

$$f(x) = (0, \frac{\pi}{2})$$

$$f(x) = \begin{bmatrix} -\frac{\pi}{2}, \frac{\pi}{2} \end{bmatrix} \\ 0 = \begin{bmatrix} -\frac{\pi}{2}, -\frac{1}{\pi} \end{bmatrix} \\ 0 = \begin{bmatrix} -\frac{1}{2}, -\frac{1}{\pi} \end{bmatrix}$$

$$f(x_2 - x_1) = 1 + \frac{1}{9}(x_2 - x_1)^2 \cos 2x_2 - 4ax_2^2 = 1 + \frac{4}{9}x_2^2$$

$$\square^{(*)} \square \square \sin x_2 = -2ax_2 \square$$

$$\therefore 1-8a^2X_2^2-4aX_2^2=1+\frac{4}{9}X_2^2$$

$$\sum_{\alpha \in A} X_2^2 (3a+1)(6a+1) = 0$$

$$X_2 \neq 0, a \in \left(-\frac{1}{2}, -\frac{1}{\pi}\right)$$

$$\therefore a = -\frac{1}{3}$$

$$a = -\frac{1}{3} \prod_{0 \in \mathbb{N}} f(x_2 - x_1) = 1 + \frac{1}{9} (x_2 - x_1)^2$$

$$0100000 h(x) = f(x) + g(x) 00000$$

$$200 X_{0} X_{1} X_{2} (X_{1} < X_{2}) = 0$$

$$00000010h(x) = f(x) + g(x) = hx + x^2 - ax(x > 0)(a > 0)$$

$$h(x) = \frac{1}{x} + 2x - a = \frac{2x^2 - ax + 1}{x}$$

$$2x^2 - ax + 1 = 0$$
  $ax + 1 = 0$ 

$$0 < a, 2\sqrt{2} \cos \pi$$

$$\square^{X \in (0, \frac{a^{-}\sqrt{\vec{a}\cdot 8}}{4})} \square^{\left(\frac{a+\sqrt{\vec{a}\cdot 8}}{4}\right) \square^{+\infty}} \square^{+\infty}) \square^{H(X)} > 0 \square^{H(X)} \square \square$$

$$X \in (\frac{a - \sqrt{\vec{a} - 8}}{4} \bigsqcup_{i=1}^{\infty} \frac{a + \sqrt{\vec{a} - 8}}{4}) \bigsqcup_{i=1}^{\infty} h(x) < 0 \bigsqcup_{i=1}^{\infty} h(x)$$

$$0 h(x) = \frac{a - \sqrt{a^2 - 8}}{4} = \frac{a + \sqrt{a^2 - 8}}{4} = 0$$

$$0 < a$$
,  $2\sqrt{2} = h(x) = 0$ 

$$a > 2\sqrt{2} \bigcap h(x) \bigcap \frac{a - \sqrt{\vec{a} - 8}}{4} \bigcap \frac{a + \sqrt{\vec{a} - 8}}{4} \bigcap$$

$$f(x) - \frac{g(x)}{x^3} + \frac{1}{x} = \ln x - \frac{x^2 - ax}{x^3} + \frac{1}{x} = 0 \quad \ln x + \frac{a}{x^2} = 0$$

$$k(x) = lnx + \frac{a}{x^2}(x > 0, a > 0)$$

$$k'(x) = \frac{1}{x} - \frac{2a}{x^3} = \frac{x^2 - 2a}{x^3}$$

$$0 < x < \sqrt{2a} \bigsqcup_{x \to \infty} k'(x) < 0 _{ \bigsqcup_{x \to \infty} X > \sqrt{2a} \bigsqcup_{x \to \infty} k'(x) > 0 _{ \bigsqcup_{x \to \infty} X > \sqrt{2a} \bigsqcup_{x \to \infty} k'(x) > 0 _{ \bigsqcup_{x \to \infty} X > \sqrt{2a} \bigsqcup_{x \to \infty} k'(x) > 0 _{ \bigsqcup_{x \to \infty} X > \sqrt{2a} \bigsqcup_{x \to \infty} k'(x) > 0 _{ \bigsqcup_{x \to \infty} X > \sqrt{2a} \bigsqcup_{x \to \infty} k'(x) > 0 _{ \bigsqcup_{x \to \infty} X > \sqrt{2a} \bigsqcup_{x \to \infty} k'(x) > 0 _{ \bigsqcup_{x \to \infty} X > \sqrt{2a} \bigsqcup_{x \to \infty} k'(x) > 0 _{ \bigsqcup_{x \to \infty} X > \sqrt{2a} \bigsqcup_{x \to \infty} k'(x) > 0 _{ \bigsqcup_{x \to \infty} X > \sqrt{2a} \bigsqcup_{x \to \infty} k'(x) > 0 _{ \bigsqcup_{x \to \infty} X > \sqrt{2a} \coprod_{x \to \infty} k'(x) > 0 _{ \bigsqcup_{x \to \infty} X > \sqrt{2a} \coprod_{x \to \infty} k'(x) > 0 _{ \bigsqcup_{x \to \infty} X > \sqrt{2a} \coprod_{x \to \infty} k'(x) > 0 _{ \bigsqcup_{x \to \infty} X > \sqrt{2a} \coprod_{x \to \infty} k'(x) > 0 _{ \bigsqcup_{x \to \infty} X > \sqrt{2a} \coprod_{x \to \infty} k'(x) > 0 _{ \bigsqcup_{x \to \infty} X > \sqrt{2a} \coprod_{x \to \infty} k'(x) > 0 _{ \bigsqcup_{x \to \infty} X > \sqrt{2a} \coprod_{x \to \infty} k'(x) > 0 _{ \bigsqcup_{x \to \infty} X > \sqrt{2a} \coprod_{x \to \infty} k'(x) > 0 _{ \bigsqcup_{x \to \infty} X > \sqrt{2a} \coprod_{x \to \infty} k'(x) > 0 _{ \bigsqcup_{x \to \infty} X > 0} _{ \bigsqcup_{x \to \infty} k'(x) > 0 _{ \bigsqcup_{x \to \infty} K > 0} _{ \bigsqcup_{x \to \infty} k'(x) > 0 _{ \bigsqcup_{x \to \infty} k'(x) > 0} _{ \bigsqcup_{x \to \infty} k'(x) > 0 _{ \bigsqcup_{x \to \infty} k'(x) > 0 _{ \bigsqcup_{x \to \infty} k'(x) > 0} _{ \bigsqcup_{x \to \infty} k'(x) > 0 _{ \bigsqcup_{x \to \infty} k'(x) > 0 _{ \bigsqcup_{x \to \infty} k'(x) > 0} _{ \bigsqcup_{x \to \infty} k'(x) > 0 _{ \bigsqcup_{x \to \infty} k'(x) > 0 _{ \bigsqcup_{x \to \infty} k'(x) > 0 _{ \bigsqcup_{x \to \infty} k'(x) > 0} _{ \bigsqcup_{x \to \infty} k'(x) > 0} _{ \bigsqcup_{x \to \infty} k'(x) > 0} _{ \bigsqcup_{x \to \infty} k'(x) > 0 _{ \bigsqcup_{x \to \infty} k'(x) > 0} _{ \bigsqcup_$$

$$\therefore \mathit{k}(\mathit{x})_{\,\square}(0,\sqrt{2\mathit{a}})_{\,\square\square\square\square}(\sqrt{2\mathit{a}}_{\,\square}+\infty)_{\,\square\square\square\square}$$

:. 
$$k(\sqrt{2a}) < 0$$
  $\ln \sqrt{2a} + \frac{a}{2a} < 0$   $0 < a < \frac{1}{2e}$ 

$$\begin{cases} \ln x_1 + \frac{a}{x_1^2} = 0 \\ \ln x_2 + \frac{a}{x_2^2} = 0 \\ \ln x_2 - \ln x_1 = \frac{a}{x_1^2} - \frac{a}{x_2^2} \end{cases}$$

$$t = \frac{X_2}{X_1}(t > 1) \quad \therefore Int = \frac{a}{X_1^2} - \frac{a}{fX_1^2}$$

$$X_1^2 = \frac{\partial}{\partial nt} (1 - \frac{1}{f})$$

$$000(1+t^{2}) x^{2} > 4a_{0}(1+t^{2}) \frac{a}{Int}(1-\frac{1}{t^{2}}) > 4a_{0}$$

$$\therefore (1+t^2)\frac{1}{\ln t^2}(1-\frac{1}{t^2}) > 2$$

$$2Int - t + \frac{1}{t} < 0(t > 1)$$

$$q(x) = 2\ln x - x + \frac{1}{x}(x > 1)$$

$$\vec{q}(\vec{x}) = -\frac{(\vec{x}-1)^2}{\vec{x}^2} < 0$$

$$\therefore q(x)_{\square}^{(1,+\infty)}$$

$$\therefore q(x) < q_{11} = 0$$

$$\therefore 2hx - x + \frac{1}{x} < 0 \qquad x_1^2 + x_2^2 > 4a$$

$$0 = e^{-1} - b + 1 = 0$$

$$\lim_{n \to \infty} e^{p^{-1}} - b + 1 = \lim_{n \to \infty} F(x) = \lim_{n \to \infty} F(x) = \lim_{n \to \infty} X_1(x_1 < x_2) = \lim_{n \to \infty} X_1 \cdot X_2^2 > e^{x} = \lim_{n \to \infty} F(x) =$$

$$f(x) = \frac{1}{x} - \frac{b}{x^2} = \frac{x - b}{x^2}(x > 0)$$

$$\begin{smallmatrix} 0 & h, & 0 \\ 0 & t & x \\ \end{smallmatrix} , \begin{smallmatrix} 0 & 0 \\ 0 & t \\ \end{smallmatrix} , \begin{smallmatrix} 0 & 0 \\ 0 & t \\ \end{smallmatrix} , \begin{smallmatrix} 0 & 0 \\ 0 & t \\ \end{smallmatrix} , \begin{smallmatrix} 0 & 0 \\ 0 & t \\ \end{smallmatrix} , \begin{smallmatrix} 0 & 0 \\ 0 & t \\ \end{smallmatrix} , \begin{smallmatrix} 0 & 0 \\ 0 & t \\ \end{smallmatrix} , \begin{smallmatrix} 0 & 0 \\ 0 & t \\ \end{smallmatrix} , \begin{smallmatrix} 0 & 0 \\ 0 & t \\ \end{smallmatrix} , \begin{smallmatrix} 0 & 0 \\ 0 & t \\ \end{smallmatrix} , \begin{smallmatrix} 0 & 0 \\ 0 & t \\ \end{smallmatrix} , \begin{smallmatrix} 0 & 0 \\ 0 & t \\ \end{smallmatrix} , \begin{smallmatrix} 0 & 0 \\ 0 & t \\ \end{smallmatrix} , \begin{smallmatrix} 0 & 0 \\ 0 & t \\ \end{smallmatrix} , \begin{smallmatrix} 0 & 0 \\ 0 & t \\ \end{smallmatrix} , \begin{smallmatrix} 0 & 0 \\ 0 & t \\ \end{smallmatrix} , \begin{smallmatrix} 0 & 0 \\ 0 & t \\ 0 & t \\ \end{smallmatrix} , \begin{smallmatrix} 0 & 0 \\ 0 & t \\ 0 & t \\ \end{smallmatrix} , \begin{smallmatrix} 0 & 0 \\ 0 & t \\ 0 & t \\ 0 & t \\ \end{smallmatrix} , \begin{smallmatrix} 0 & 0 \\ 0 & t \\$$

$$0 \longrightarrow 0 \longrightarrow f(x) = 0 \longrightarrow x = b$$

$$= f(x) = (0, b) = (0, b) = (b + \infty) = 0$$

$$00e^{-1} - b + 1_{0000010}$$

$$\lim_{b \to 0} e^{-1} - b + 1_{0000000} a - 1 = \ln b_0 F(b) = \frac{a - 1}{b} - m = \frac{\ln b}{b} - m_0$$

$$\lim_{n \to \infty} X_1 \cdot X_2^2 > \tilde{\mathcal{C}}_{0000000} \ln X_1 + 2\ln X_2 = nX_1 + 2nX_2 = n(X_1 + 2X_2) > 3_{10}$$

$$ln\frac{X_1}{X_2} = m(X_1 - X_2) \Rightarrow m = \frac{ln\frac{X_1}{X_2}}{X_1 - X_2}$$

$$(x_1 + 2x_2) \cdot \frac{\ln \frac{X_1}{X_2}}{X_1 - X_2} > 3 \Leftrightarrow \ln \frac{X_1}{X_2} < \frac{3(x_1 - x_2)}{X_1 + 2x_2} = \frac{3(\frac{X_1}{X_2} - 1)}{\frac{X_1}{X_2} + 2}$$

$$\frac{X_{1}}{X_{2}} = t(0 < t < 1) \qquad g(t) = Int - \frac{3(t-1)}{t+2}, (0 < t < 1) \qquad g(t) = \frac{(t-1)(t-4)}{t(t+2)^{2}} > 0$$

$$0000 \, \mathcal{G}(\hbar)_{\, \square}\, (0,1)_{\, 0000000} \, \therefore \, \mathcal{G}(\hbar) < \mathcal{G}_{\, \square\, \square}\, = 0_{\, \square\, \square\, \square}$$

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